

## EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

PUBLICATION NUMBER : 61150289  
PUBLICATION DATE : 08-07-86

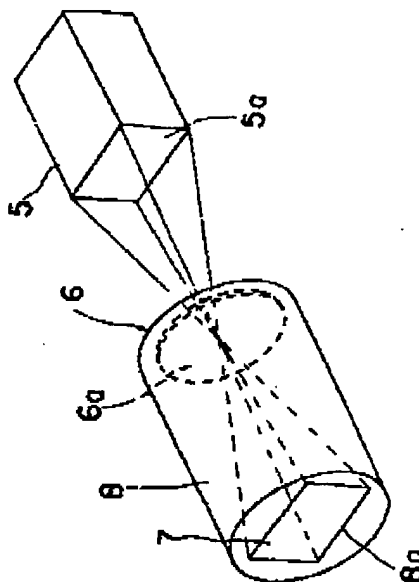
APPLICATION DATE : 24-12-84  
APPLICATION NUMBER : 59280815

APPLICANT : TOSHIBA CORP;

INVENTOR : IWASAKI KENJI;

INT.CL. : H01S 3/10

TITLE : LASER IRRADIATION APPARATUS



**ABSTRACT :** **PURPOSE:** To contrive to improve the safety and controllability by a method wherein laser beams reflected on a surface to be irradiated are shielded or attenuated by providing a laser beam shielding member having wavelength selectively between the convergence part and the irradiation end surface, and the surface to be irradiated is enabled to be visually recognized.

**CONSTITUTION:** The laser beam with the distribution of a uniform intensity emitted out of the end surface 5a of a uniform irradiation rod 5 is converged by a lens 6a, passes through the laser beam shielding member 8, and is projected to a specific position determined by the focal length (f) of the lens 6a. The laser beam shielding member 8 is made long enough to form the irradiation end surface 7 having the distribution of a uniform intensity. Therefore, since a laser beam reflected on a surface to be irradiated is shielded by said member 8 in the contact of the end surface of this member 8 with the surface of a diseased part, the reflected laser beam is prevented from coming into the eyes of the operation or others. Besides, even if the laser beam comes out of said member 8, because of much attenuation, the possibility of eye damage is largely reduced.

**COPYRIGHT:** (C)1986,JPO&Japio